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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/058,630	01/28/2002	Michael L. Camilleri	07039-355001	3436

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EXAMINER

HASHEMI, SHAR S

ART UNIT	PAPER NUMBER
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1637

DATE MAILED: 04/10/2003

9

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/058,630

Applicant(s)

CAMILLERI ET AL.

Examiner

Shar Hashemi

Art Unit

1637

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 December 2002.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 and 8-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 and 8-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

DETAILED ACTION

Status of Application, Amendments, and/or Claims

1. The Amended filed on 12/12/02 has been received and entered in full. Claims 6 and 7 were canceled. Claims 1-5 and 8-14 are pending and currently under examination.1.

Response to Amendment

2. Applicant states (1) Kong et al reference does not teach or suggest a method for predicting patient responsiveness with the previously described limitations and (2) Kong et al discloses “del/del” which corresponds to an “increased incidence in favorable therapeutic response.” These arguments are found to be not persuasive because the Kong et al reference teaches a method for predicting patient responsiveness to a 5-HT₃ receptor antagonist that includes determining a genotype of the promoter region of the patient’s serotonin transporter gene, where the “del/del” genotype corresponds to a “greater” patient responsiveness (page 3, lines 15-35; page 4, lines 1-31, page 22, see example 3).

3. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

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The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1, 8 and 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

A) The term "greater" in claims 1, 8 and 9 is a relative term which renders the claims indefinite. The term "greater" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. It is unclear as to whether "greater" refers to a quantity that is larger than zero or one.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

7. Claims 1-5 and 8-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Kong et al (WO 01/61039 A2 August 23, 2001).

Kong et al in WO 01/61039 A2 teach a method for predicting patient responsiveness to a 5-HT₃ receptor antagonist comprise determining the genotype of the promoter region of the patient's serotonin transporter gene, where the genotype is selected from the group consisting of a long variant/long variant, short variant/long variant, and short variant/short variant, and correlating the long variant/long variant genotype with greater patient's responsiveness (page 3,

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lines 15-35; page 4, lines 1-31, page 22, see example 3). They also teach alosetron is the 5-HT₃ receptor antagonist used in the treatment for diarrhea-predominant irritable bowel syndrome (page 1, lines 26-28; page 4, lines 26-31; page 21, see example 2). In the genotyping step, they teach amplifying a nucleic acid comprising the promoter region of the patient's serotonin transporter protein gene in order to obtain an amplified product and determining the size of the amplified product to identify a long variant/long variant genotype with patient responsiveness (page 5, lines 18-32; page 22, see example 3). They teach greater patient responsiveness is determined by measuring a patient parameter (page 1, lines 19-30; page 2, lines 1-13). They teach greater patient responsiveness is determined by comparing a measured patient parameter with a pre-determined clinically significant threshold (page 2, lines 6-24). They further teach that patient responsiveness is determined by comparing a measured net negative change in the geometric center of colonic transit of at least 1.14 colonic regions after treatment with the 5-HT₃ receptor antagonist (page 2, lines 1-24).

Second, they teach a method for treating a patient with diarrhea-predominant irritable bowel syndrome comprise obtaining a biological sample from the patient, genotyping the promoter region of the serotonin transporter protein gene in the biological sample obtained from the patient and administering a 5-HT₃ receptor antagonist to patient's having a long variant/long variant genotype in the promoter region of the serotonin transporter gene (page 5, lines 18-31; page 28, see claims 33 & 36). They teach that the biological sample is blood (page 27, line 15).

Third, they teach a method for identifying a patient population for inclusion in a 5-HT₃ receptor antagonist clinical trial comprise obtaining a biological sample from a potential participant in the clinical trial, genotyping the promoter region of the serotonin transporter gene

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contained within the biological sample, and identifying the potential participant as suitable for inclusion in the patient population based on having a long variant/long variant genotype in the promoter region of the potential participant's serotonin transporter gene (page 6, lines 13-24; page 10, lines 10-27; page 21, see example 2).

SUMMARY

8. No claims allowed.

CONCLUSION

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shar Hashemi whose telephone number is (703) 305-4840 and whose e-mail address is shar.hashemi@uspto.gov. However, the Office cannot guarantee security through the e-mail system nor should official papers be transmitted through this route. The examiner is on flex-time schedule and can be best reached on weekdays from 7:00 a.m. to 3:30 p.m. If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Gary Benzion, can be reached on (703) 308-1119.

Any inquiry of a general nature, matching or filed papers or relating to the status of this application or proceeding should be directed to the Tracey Johnson for Art Unit 1637 whose telephone number is (703) 305-2982.


Papers related to this application may be submitted to Group 1600 by facsimile transmission. Papers should be faxed to Group 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CM1 Center numbers for Group 1600 are

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Voice (703) 308-1235 and Before Final FAX (703) 872-9306 or After Final FAX (703) 308-9307.



Ethan Whisenant, Ph.D.
Primary Examiner
Art Unit 1634

April 01, 2003

